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101. *Eleocharis cylindrica* is *E. tenuis*, Schultes, a variety with smooth achenia.

102. *Eleocharis microformis* [a hybrid name] is near *E. intermedia*, Schultes.

103. *Eleocharis acutisquamata* is the *E. palustris* var. *anachæta*, Torr.

It will be perceived that all the new genera of Mr. Buckley's two papers, and nearly all the new species, are either oversights or mistakes, which might have been avoided. The painful duty I have had to perform was all the more necessary, inasmuch as the true names of the plants could seldom have been ascertained from the published descriptions in those papers. However excellent the author's intentions, we can only regret a publication which entails upon our science a hundred worse than useless synonyms, (a regret which I have reason to believe Mr. Buckley now shares), and we should endeavor to prevent future calamities of the kind. In this regard, understanding that a third paper of the sort, upon a peculiarly difficult order of plants, has been printed in the Academy's Proceedings, but not yet issued, I am confident that my motives will not be misunderstood when I venture to suggest, that the credit both of the Academy and of the author of the paper, no less than the interests of science, would be most subserved by the cancelling of the sheets.

Descriptions of Ten new species of UNIONIDE of the United States.

BY ISAAC LEA.

UNIO GRANDIDENS.—Testâ valdè tuberculatâ, obliquâ, ad umbones inflatâ; valvulis crassissimis, anticè crassioribus; natibus valdè tumidis terminalibusque; epidermide fuscâ; dentibus cardinalibus pergrandibus, percrassis corrugatisque; lateralibus crassis, sublongis, obliquis et valdè corrugatis; margaritâ albâ et iridescente.

Hab.—Near Hot Springs, Arkansas, Byrd Powell, M. D.

UNIO SPECIOSUS.—Testâ omninò tuberculatâ, ferè granulâtâ, quadrangulari, valdè compressâ, ad latere planulatâ, subæquilaterali, posticè subbiangulatâ et emarginatâ, anticè rotundatâ; valvulis subcrassis, anticè paulisper crassioribus; natibus subelevatis, ad apices acuminatis et elegantissimè perundulatis; epidermide viridi-luteâ, substriatâ, vel obsoletè radiatâ vel eradiatâ, submicanti; dentibus cardinalibus subgrandibus, compressis, obliquis, erectis, striatis, in utroque valvulo duplicibus; lateralibus rectis, sublongis obliquisque; margaritâ argenteâ et iridescente.

Hab.—Colorado River, near Lagrange, Texas, Prof. Forshey; and Leon Co., Texas, Lieut. E. F. Beale.

UNIO LEIBII.—Testâ lævi, quadrâ, subcompressâ, valdè inæquilaterali, posticè emarginatâ, anticè rotundatâ, valvulis subcrassis, anticè crassioribus; natibus subprominentibus, ferè terminalibus; epidermide stramineâ, eradiatâ; dentibus cardinalibus subgrandibus, erectis striatisque; lateralibus curtis, rectis crassisque, in utroque valvulo duplicibus; margaritâ albâ et paulisper iridescente.

Hab.—Erie Co., Michigan, G. B. Leib, M. D.

UNIO GERHARDTII.—Testâ subsulcatâ, ellipticâ, subcompressâ, sublenticulari, inæquilaterali, posticè obtusè angulatâ, anticè retundâ; valvulis crassiusculis, anticè paulisper crassioribus; natibus subelevatis; epidermide stramineâ, radiis capillaribus; dentibus cardinalibus parviusculis, compressis, in utroque valvulo duplicibus; lateralibus sublongis, lamellatis subcurvisque; margaritâ albâ et valdè iridescente.

Hab.—Chattanooga, Geo., Alexander Gerhardt.

[April,

UNIO MERCERII.—Testâ lævi, latè elliptica, compressâ, posticè compressâ et biangulatâ, anticè rotundatâ, valdè inæquilaterali; valvulis subtenuibus; natibus prominulis; epidermide tenebroso-fuscâ, subnitidâ, eradiatâ; dentibus cardinalibus parvis, tuberculatis striatisque; lateralibus prælongis subcurvisque; margaritâ purpureâ et valdè iridescente.

Hab.—Lee Co., Geo., Dr. Mercer.

UNIO ARKANSASSENSIS.—Testâ lævi, ovato-obliquâ, inæquilaterali, posticè compressâ et obtusè biangulatâ, anticè rotundâ; valvulis crassiusculis, anticè paulisper crassioribus; natibus subelevatis; epidermide flavescente, obsoletè radiatâ; dentibus cardinalibus parvis, striatis crenulatisque; lateralibus sublongis, subrectis subcrassisque; margaritâ albâ et valdè iridescente.

Hab.—Near Hot Springs, Arkansas, Byrd Powell, M. D.

UNIO BEALEI.—Testâ lævi, ellipticâ, subcompressâ, inæquilaterali, posticè obtusè angulatâ, anticè rotundatâ; valvulis crassiusculis, anticè crassioribus; natibus prominulis; epidermide vel tenebroso-fuscâ vel nigricante, obsoletè radiatâ; dentibus cardinalibus parvis, compressis, crenulatis, acuminatis, in utroque valvulo duplicibus; lateralibus prælongis, subcurvis, lamellatis; margaritâ vel albâ vel dilutè salmoniâ et valdè iridescente.

Hab.—Leon County, Texas, Lieut. E. F. Beale, U. S. Navy. Rutersville, Texas, Prof. Forshey.

ANODONTA LEONENSIS.—Testâ lævi, ellipticâ, inflatâ, inæquilaterali, posticè subbiangulatâ, anticè obliquè rotundatâ et paulisper sulcatâ; valvulis tenuibus, anticè paulisper crassioribus; natibus prominentibus, tumidis, ad apices nodosis; epidermide fulgidâ, luteo-virente vel fuscescente, vel obsoletè radiatâ vel eradiatâ; margaritâ cæruleo-albâ et valdè iridescente.

Hab.—Leon County, Texas, Lieut. E. F. Beale, U. S. Navy.

ANODONTA WILLIAMSH.—Testâ lævi, ovato-oblongâ, inflatâ, subæquilaterali, posticè subbiangulatâ, anticè rotundatâ et paulisper sulcatâ; valvulis subtenuibus, anticè ad marginem incrassatis; natibus prominulis, inflatis, ad apices undulatis; epidermide vel viridi vel luteo-olivâ, fulgidâ, obsoletè radiatâ vel eradiatâ; margaritâ cæruleo-albâ et valdè iridescente.

Hab.—Potomac River, at the White House below Mt. Vernon, H. C. Williams.

ANODONTA TRYONI.—Testâ lævi, obliquo-ellipticâ, subcompressâ, sublenticulari, valdè inæquilaterali, posticè subbiangulari, anticè rotundatâ; valvulis tenuibus; natibus prominulis, subcompressis, ad apices undulatis, epidermide fulgidâ, vel virente vel fuscescente, obsoletè radiatâ; margaritâ cæruleo-albâ et valdè iridescente.

Hab.—Schuylkill River, above Philadelphia, Delaware River, at League Island, G. W. Tryon, jr. Flemington, Con., Prof. Shepard. Westfield, Mass., Dr. Shurtleff; and Potomac near Chain Bridge, above Washington, Prof. Henry.

Description of a New Genus, (*TRYPANOSTOMA*) of the Family *MELANIDÆ*, and of forty-five New Species.

BY ISAAC LEA.

Family *MELANIDÆ*.

Genus *TRYPANOSTOMA*.*—Testa conica, apertura rhomboidea, infernè subcanaliculata. Labro expanso. Columella lævis, infernè contorta. Operculum corneum, ad spirans pertinens.

The enormous number of species in the genus *Melania*, has made it very desirable to eliminate as many as possible, by founding new genera, when well-characterised groups can be established. With this view, I proposed, in the

* *Τρύπανον*, an auger, and *στόμα*, a mouth.